

CONSTRUCTION STORMWATER REFRESHER



2010 – Part B



Dewatering Operations (SSP 07-346)

- Notify District Construction Storm Water Coordinator
- Use Caltrans Field Guide to Construction Site Dewatering
- Contractor to submit a Dewatering and Discharge Plan
- Use where groundwater or accumulated precipitation will be discharged from site
- Addresses sediment only
- Notify RE if pollutant other than sediment is present
- Must comply with applicable permits



139

You should be able to:

- Determine if a dewatering operation is required
- Determine if a permit is required
- Understand the Contractor's and the Department's roles and responsibilities
- Understand the process for dewatering under the Caltrans and RWQCB permits
- Determine if the Contractor is in compliance
- Determine the appropriateness of dewatering treatment technologies



140

What is a Dewatering Operation?

- Practices that manage the discharge when non-stormwater or accumulated precipitation must be removed from a work location



141

Is a Dewatering Operation Required?

- **Do you have water on the project...**
 - ...that has been standing for 72 hours or more and needs to be removed for vector control?
 - ...that needs to be removed by the Contractor for construction to proceed?



142

Is an NPDES Permit Required?

- **Is it stormwater or non-stormwater?**
- **Where is the effluent being discharged?**
- **Where is the project located?**
- **What is the daily volume of water and duration?**
- **Is the effluent polluted with sediment or other pollutants?**



143

Types of Dewatering Operations

- There are three types of dewatering operations:
 - Operations **NOT regulated** under an NPDES Permit
 - Operations **regulated under the Caltrans Statewide** NPDES Permit
 - Operations **regulated under a local RWQCB** NPDES Permit



144

Assess Water Quality

- Is there reason to suspect pollutant other than sediment?
- Sight and odor test

Estimate Discharge Parameters

- Is the water from groundwater, cofferdam, accumulated precipitation?
- What is the daily flow rate, duration, and total volume?



145

Manage Water with Pollutants Other than Sediment

- Additional testing and evaluation are typically required
- Contact your CSWC for assistance



146

Types of Dewatering Operations

- There are three types of dewatering operations:
 - Operations **NOT regulated** under an NPDES Permit
 - Operations **regulated under the Caltrans Statewide** NPDES Permit
 - Operations **regulated under a local RWQCB** NPDES Permit



147

Key Qualification: No NPDES Permit Required Options

**Dewatering effluent cannot be
discharged to a storm drain or
water body at any time
during the operation!**



148

Dewatering Management Options: No NPDES Permit Required

- **Retain Water on Site**
- **Discharge to Adjacent Land or Facility Owned by Others**
- **Discharge to a Public Sanitary Sewer System**
- **Transport Off Site Using a Transportation, Storage and Disposal (TSD) Contractor**



149

Types of Dewatering Operations

- There are three types of dewatering operations:
 - Operations **NOT regulated** under an NPDES Permit
 - Operations **regulated under the Caltrans Statewide** NPDES Permit
 - Operations **regulated under a local RWQCB** NPDES Permit



150

Key Qualification: NPDES Permit

A dewatering operation is regulated by an NPDES Permit if any effluent will discharge to a surface water or a storm drain that discharges to a surface water



151

Which NPDES Permit Regulates the Operation: Caltrans or RWQCB?

- **Depends on:**
 - RWQCB with jurisdiction over project
 - Source of effluent: Stormwater or non-stormwater
 - Water quality: Unpolluted, polluted by sediment only, or contains pollutants other than sediment
 - Discharge Parameters: Flow rate, daily volume, duration



152

District 1 RWQCB NPDES Permit Summary

Caltrans District 1		RWQCB	
Type of Dewatering Discharge		1 North Coast	5 Central Valley
Storm Water	Unpolluted or Sediment as Only Pollutant	RWQCB Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted and Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Caltrans Statewide Permit
	Polluted or More than 250,000 Gallons/Day (24-hour day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit	RWQCB Permit



153

District 2 RWQCB NPDES Permit Summary

Caltrans District 2			RWQCB		
Type of Dewatering Discharge			1 North Coast	5 Central Valley	6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant		RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment		RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits	RWQCB Permit		RWQCB Permit
		Less Than 250,000 Gallons/Day (24-hr/day) and Less Than 4 Months Duration (in Calendar Year)		Caltrans Statewide Permit	
		More Than 250,000 Gallons/Day (24-hr/day) or More Than 4 Months Duration		RWQCB Permit	
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit	RWQCB Permit

Note: Blacked out boxes are when Regional Board does not specify situation.



154

District 3 RWQCB NPDES Permit Summary

Caltrans District 3			RWQCB		
Type of Dewatering Discharge			1 North Coast	5 Central Valley	6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant		RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment		RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits	RWQCB Permit		RWQCB Permit
		Less Than 250,000 Gallons/Day (24-hr/day) and Less Than 4 Months Duration (in Calendar Year)		Caltrans Statewide Permit	
		More Than 250,000 Gallons/Day (24-hr/day) or More Than 4 Months Duration		RWQCB Permit	
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit	RWQCB Permit

Note: Blacked out boxes are when Regional Board does not specify situation.



155

District 4 RWQCB NPDES Permit Summary

Caltrans District 4		RWQCB			
Type of Dewatering Discharge		1 North Coast	2 San Francisco ^A	3 Central Coast	5 Central Valley
Storm Water	Unpolluted or Sediment as Only Pollutant	RWQCB Permit	Permission or RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted and Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Permission or RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Polluted or More than 250,000 Gallons/Day (24-hr day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit	RWQCB Permit	RWQCB Permit	RWQCB Permit

^A May give verbal permission for short-term, small quantity discharges without a permit



156

District 5 RWQCB NPDES Permit Summary

Caltrans District 5		RWQCB		
Type of Dewatering Discharge		2 San Francisco ^A	3 Central Coast	5 Central Valley
Storm Water	Unpolluted or Sediment as Only Pollutant	Permission or RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water or Storm Water Mixed with Other Water	Unpolluted and Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	Permission or RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Polluted or More than 250,000 Gallons/Day (24-hr day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit	RWQCB Permit	RWQCB Permit



157

District 6 RWQCB NPDES Permit Summary

District 6			RWQCB	
Type of Dewatering Discharge			5 Central Valley	6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant		Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment		RWQCB Permit	RWQCB Permit
Non-Storm Water or Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits		RWQCB Permit
		Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	Caltrans Statewide Permit	
		More than 250,000 Gallons/Day (24-hr day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit	
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit

Note: Blacked out boxes are when Regional Board does not specify situation.



158

District 7 RWQCB NPDES Permit Summary

Caltrans District 7			RWQCB			
Type of Dewatering Discharge			3 Central Coast	4 Los Angeles	5 Central Valley	6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant		Caltrans Statewide Permit	Caltrans Statewide Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment		RWQCB Permit	RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits		RWQCB Permit		RWQCB Permit
		Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	Caltrans Statewide Permit		Caltrans Statewide Permit	
		More than 250,000 Gallons/Day (24-hr day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit		RWQCB Permit	
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit	RWQCB Permit	RWQCB Permit

Note: Blacked out boxes are when Regional Board does not specify situation.



159

District 8 RWQCB NPDES Permit Summary

Caltrans District 8		RWQCB			
Type of Dewatering Discharge		6 Lahontan	7 Colorado River	8 Santa Ana	9 San Diego
Storm Water	Unpolluted or Sediment as Only Pollutant	Caltrans Statewide Permit	Caltrans Statewide Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	RWQCB Permit	RWQCB Permit	RWQCB Permit
Groundwater	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto; Unpolluted and Less Than 100,000 Gallons/Day (24-hr day)				RWQCB Permit
	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto; Unpolluted and Greater Than 100,000 Gallons/Day (24-hr day) or Polluted and Less Than 100,000 Gallons/Day (24-hr day)				RWQCB Permit
	Discharge to San Diego Bay or to Storm Conveyances or Tributaries Thereto				RWQCB Perm
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits	RWQCB Permit		Contact RWQCB
		Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)		Caltrans Statewide Permit	RWQCB Permit
		More than 250,000 Gallons/Day (24- hr day) or Longer Than 4 Months Duration (in Calendar Year)		RWQCB Permit	RWQCB Permit
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit	Contact RWQCB

Note: Blacked out boxes are when Regional Board does not specify situation.



160

District 9 RWQCB NPDES Permit Summary

Caltrans District 9		RWQCB
Type of Dewatering Discharge		6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	RWQCB Permit
	Polluted	RWQCB Permit



161

District 10 RWQCB NPDES Permit Summary

Caltrans District 10			RWQCB		
Type of Dewatering Discharge			2 San Francisco ^A	5 Central Valley	6 Lahontan
Storm Water	Unpolluted or Sediment as Only Pollutant		RWQCB Permit	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment		RWQCB Permit	RWQCB Permit	RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted	No Volume or Duration Limits			RWQCB Permit
		Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Caltrans Statewide Permit	
		More than 250,000 Gallons/Day (24-hr day) or Longer Than 4 Months Duration (in Calendar Year)	RWQCB Permit	RWQCB Permit	
	Polluted	No Volume or Duration Limits	RWQCB Permit	RWQCB Permit	RWQCB Permit

Note: Blacked out boxes are when Regional Board does not specify situation.



162

District 11 RWQCB NPDES Permit Summary

Caltrans District 11		RWQCB	
Type of Dewatering Discharge		7 Colorado River	9 San Diego
Storm Water	Unpolluted or Sediment as Only Pollutant	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	Contact RWQCB
Groundwater	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto: Unpolluted and Less Than 100,000 Gallons/Day (24-hr day)		RWQCB Permit
	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto: Unpolluted and Greater Than 100,000 Gallons/Day (24-hr day) or Polluted and Less Than 100,000 Gallons/Day (24-hr day)		RWQCB Permit
	Discharge to San Diego Bay or to Storm Conveyances or Tributaries Thereto		RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted and Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	Caltrans Statewide Permit	Contact RWQCB
	Polluted or More Than 250,000 Gallons/Day (24-hr day) and More Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Contact RWQCB

Note: Blacked out boxes are when Regional Board does not specify situation.



163

District 12 RWQCB NPDES Permit Summary

Caltrans District 12		RWQCB	
Type of Dewatering Discharge		8 Santa Ana	9 San Diego
Storm Water	Unpolluted or Sediment as Only Pollutant	Caltrans Statewide Permit	Caltrans Statewide Permit
	Pollutant Other Than Sediment	RWQCB Permit	Contact RWQCB
Groundwater	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto: Unpolluted and Less Than 100,000 Gallons/Day (24-hr day)		RWQCB Permit
	Discharge to other than San Diego Bay or Storm Conveyances or Tributaries Thereto: Unpolluted and Greater Than 100,000 Gallons/Day (24-hr day) or Polluted and Less Than 100,000 Gallons/Day (24-hr day)		RWQCB Permit
	Discharge to San Diego Bay or to Storm Conveyances or Tributaries Thereto		RWQCB Permit
Non-Storm Water and Storm Water Mixed with Other Water	Unpolluted and Less Than 250,000 Gallons/Day (24-hr day) and Less Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Contact RWQCB
	Polluted or More Than 250,000 Gallons/Day (24-hr day) and More Than 4 Months Duration (in Calendar Year)	RWQCB Permit	Contact RWQCB

Note: Blacked out boxes are when Regional Board does not specify situation.



164

Dewatering under Caltrans Permit General Information

- Stormwater in all RWQCB Regions except 1 and 2
- Qualifying non-stormwater in RWQCB Regions 3, 5, and 7 (volume and duration limits)
- Must be free of pollutants other than sediment
- May require treatment for sediment removal prior to discharge



165

Dewatering under Caltrans Permit General Process

- Notify RWQCB (through your CSWC) if non-stormwater (Applicable for RWQCBs 7 & 9 only)
- Amend SWPPP/ WPCP if necessary (See 07-347)
- Treat to remove sediment if not 'visibly clear'
- Monitor dewatering operations using the Dewatering Operations Monitoring Form (sample provided in revised NS-2 BMP available on Caltrans website)



166

Types of Dewatering Operations

- There are three types of dewatering operations:
 - Operations **NOT regulated** under an NPDES Permit
 - Operations **regulated under the Caltrans Statewide** NPDES Permit
 - Operations **regulated under a local RWQCB** NPDES Permit



167

Dewatering Under RWQCB NPDES Permit

- Required for dewatering discharge to storm drain or water body that is not allowed by the RWQCB under the Caltrans Permit
- Water Quality Limits
 - Must meet permit requirements
 - Pollutants other than sediment may be allowed, but treatment will be required



168

Dewatering Under RWQCB NPDES Permit

- May be discharged directly from the project site
- Appropriate for small or large volumes of water
- Minimal cost
- RWQCB permit may require several weeks to several months to obtain
- Treatment may be needed to meet water quality requirements
- Analytical testing, monitoring and reporting is required



169

RWQCB General NPDES Permits

- The RWQCB may have issued a general permit that covers dewatering operations
- If the general permit does not cover your particular type of operation, a site-specific permit may be required

General Permit for Dewatering by Caltrans Districts	
Caltrans District	Regional Water Quality Control Board (RWQCB) Dewatering Permit
1	Region 1 - Order No. R1-2009-0045 Region 1 - Order No. R1-2008-0081
2	Region 2 - Order No. R2-2009-0045 Region 2 - Order No. R2-2008-0081 Region 2 - Order No. R2T-2008-0023
3	Region 3 - Order No. R3-2008-0081 Region 3 - Order No. R3T-2008-0023
4	Region 4 - Order No. R4-2009-0045 Region 4 - Order No. R4-2007-0033 Region 4 - Resolution No. R4-2008-0010, Order No. R4-2006-0063 Region 4 - Order No. R4-2008-0081
5	Region 5 - Order No. R5-2007-0033 Region 5 - Resolution No. R5-2008-0010, Order No. R5-2006-0063 Region 5 - Order No. R5-2008-0081
6	Region 6 - Order No. R6T-2008-0023 Region 6 - Resolution No. R6-2008-0010, Order No. R6-2006-0063
7	Region 7 - Order No. R7-2008-0081 Region 7 - Order No. R7T-2008-0023 Region 7 - Order No. R7-2008-0023
8	Region 8 - No General Dewatering Permit So Far, but will require after November 2009 Region 8 - Order No. R8-2009-0045, R8-2009-0003, R8-2006-0065 Region 8 - Order No. R8-2008-0002, R8-2007-0034
9	Region 9 - Order No. R9T-2008-0023
10	Region 10 - Order No. R10-2007-0033 Region 10 - Order No. R10-2008-0081 Region 10 - Order No. R10T-2008-0023
11	Region 11 - No General Dewatering Permit So Far, but will require after November 2009 Region 11 - Order No. R11-2008-0002, R11-2007-0034
12	Region 12 - Order No. R12-2004-0021, R12-2009-0045, R12-2009-0003, R12-2006-0065 Region 12 - Order No. R12-2008-0002, R12-2007-0034
1-12	Statewide - Water Quality Order 2003-0003 Statewide - NPDES Statewide Storm Water Permit-CalTrans 99-06-DWQ Statewide - General Permit for Storm Water Discharges Associated with Construction Activities



170

RWQCB Permits – Major Elements

- **Permit Provisions**
- **Waste Discharge Requirements**
 - Discharge Prohibitions
 - Effluent Limitations – numeric and narrative
 - Receiving Water Limitations – numeric and narrative
- **Monitoring and Reporting Program**



171

RWQCB Permits

- **Where are the Permit Provisions?**
- **Where are the Waste Discharge Requirements?**
 - Discharge Prohibitions?
 - Effluent Limitations – numeric and narrative?
 - Receiving Water Limitations – numeric and narrative?
- **Where are the Monitoring and Reporting Program Requirements?**



172

What are the Contractor's Responsibilities?

- **Conduct the dewatering operation**
- **Select the means and methods to perform the operation unless otherwise specified in the contract documents**
- **Comply with the contract documents**



173

What are Department's Responsibilities?

- Ensure that the contractor is in compliance with NPDES permit requirements
- On Caltrans Construction contract sites, the Department is responsible for obtaining the NPDES permits needed
- Encroachment Permit Projects, the Department is responsible for assuring compliance with Caltrans requirements within Caltrans right of way



174

Course Highlights

- Pollutant sources, potential impacts and Regulation Refresher
- Best Management Practices Refresher
- Contract Administration for Water Pollution, SWPPP Review, Inspection and Maintenance, and Sampling and Analysis Refresher



175

Provide Contractor With SWPPP Information

From Information Handout:

- Vicinity Map
- Pre-Construction (Existing) Stormwater Control Practices (BMPs)
- Permanent (Post-Construction) Stormwater Control Measures (BMPs)
- Layout Sheets Showing BMP Locations
- Explanation of (Temporary) BMPs
- Copy of Notice of Construction (NOC)/Notice of Intent (NOI)



**New CGP
Requirement**



176

Provide Contractor With SWPPP Information

- Site-specific Inspection Sheet
- Other Plans/Permits
- Construction Site Estimates
- Drainage Information
- Soils/Geotechnical or Project Materials Report or other reports, including the nature of fill material
- Conceptual SWPPP



177

NOC

- Review the Notice of Construction (NOC) and make necessary changes through the NPDES Coordinator

New CGP Requirement

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NOTICE OF CONSTRUCTION
 (CMA 2002 (REV. 4/15/2008))
 IN COMPLIANCE WITH CALTRANS STATEWIDE NPDES STORM WATER PERMIT Order No. 99-06 DWQ, NPDES No. CAS000003

I. IDENTIFICATION - Attach Vicinity Map, 1/4 mile copy of Title Sheet

PROJECT: ☐ New Construction ☐ First Substantial ☐ Amendment No. ☐ CA ☐ DATE: MONTH/YEAR
 CITY OF WORK: COUNTY: PROJECT START DATE: PROJECT END DATE: PROJECT DATE SHEET AVAILABLE:

II. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS

☐ Region 1, North Coast ☐ Region 5, Central Valley ☐ Region 6, Lakeview ☐ Region 7, Colorado River
☐ Region 2, San Francisco Bay ☐ Sacramento ☐ South Lake Tahoe ☐ Region 8, Santa Ana
☐ Region 3, Central Coast ☐ Fresno ☐ Visalia ☐ Region 9, San Diego
☐ Region 4, Los Angeles ☐ Bellingham

III. CALTRANS DISTRICT

DISTRICT: PROJECT CONTACT:

ADDRESS: POSITION TITLE:
 CITY: PHONE:

IV. CONSTRUCTION FIELD OFFICE - Attach Location Map

PROJECT LOCATION (if different than address above): CONSTRUCTION CONTACT:
 CITY: STATE: ZIP: PHONE:

V. CONSTRUCTION SITE INFORMATION
 DESCRIPTION AND TYPE OF WORK:

ADDITIONAL RELATED REQUIRED APPROVALS: ☐ DTSD VARIANCE ☐ DWA 484401 ☐ DTG 1002 ☐ NPDES/SDWA ☐ OTHER (specify):

TOTAL CONSTRUCTION AREA: ADDRESS: DISTANCE: TOTAL DISTURBED AREA: ADDRESS: DISTANCE:

NEEDING DETERMINATION: PROJECT IN OR ADJACENT TO RECEIVING WATERS: ☐ YES ☐ NO

PROJECT DISCHARGE TYPE: ☐ CIRCULATED WATER INFILTRATION ☐ BASIN LOCATION: ☐ MUNICIPAL/SYSTEM NAME:

VI. CERTIFICATION
 I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or of those persons directly responsible for gathering the information, the information submitted is true, accurate and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

SIGNATURE: DATE:
 PROJECT NAME: TITLE:

ADA Notice For information with necessary accessibility, this document is available in alternate formats. For information call (916) 227-2001 or TDD (916) 227-2004 or write Records and Public Management, 1520 N. Street, 10000, Sacramento, CA 95834.

178

NOI

- For EP Projects, review the Notice of Intent (NOI) and make sure necessary changes are made by the permittee or their contractor

State Water Resources Control Board
NOTICE OF INTENT
 TO COMPLY WITH THE TERMS OF THE
 GENERAL PERMIT TO DISCHARGE STORM WATER
 ASSOCIATED WITH CONSTRUCTION ACTIVITY (SG ORDER NO. 93-08-DWQ)

Attachment 2

I. NOI STATUS (SEE INSTRUCTIONS)

MARK ONLY ONE (1) ☐ New Construction ☐ Change of Information for RSDW

II. PROPERTY OWNER

Name: Port of Long Beach Contact Person: Richard D. Cameron
 Mailing Address: 925 Harbor Plaza No. Director of Environmental Planning
 City: Long Beach State: CA Zip: 90802 Phone: (562) 590-4156

III. DEVELOPER/CONTRACTOR INFORMATION

Developer/Contractor: Port of Long Beach Contact Person: Al Muto
 Mailing Address: 925 Harbor Plaza No. Chief Harbor Engineer
 City: Long Beach State: CA Zip: 90802 Phone: (562) 590-4142

IV. CONSTRUCTION PROJECT INFORMATION

Project Name: Port of Long Beach Administration and Maintenance Facility Site Contact Person: Doug Serezo
 Physical Address/Location: 669 Harbor Plaza Latitude: 33 Longitude: 118 City: Los Angeles
 City or nearest City: Long Beach Zip: 90802 Site Phone Number: Emergency Phone Number:

A. Total area of construction site area: Acres: ☐ Before Construction: 95 % ☐ After Construction: 64 % **D. Trust Number(s):**
B. Total area to be disturbed: Acres: (1/4 of total 100) ☐ **E. Mile Post Marker:**
F. Is the construction site part of a larger common plan of development or sale? ☐ YES ☒ NO **G. Name of plan or development:**
H. Construction commencement date: **I. Projected construction dates:** Complete grading: Complete project:
J. % of site to be reseeded: **K. Type of Construction (Check all that apply):** ☐ Residential ☐ Commercial ☐ Industrial ☐ Recreational ☐ Transportation
☐ Other: Description: ☒ Other (Please List): Government Facility

V. BILLING INFORMATION

SEND BILL TO: ☒ DEVELOPER (See A. above) Name: Port of Long Beach Contact Person: Richard D. Cameron
☐ DEVELOPER (See B. above) Mailing Address: 925 Harbor Plaza Phone: (562) 590-4156
☐ OTHER (Enter information at 602) City: Long Beach State: CA Zip: 90802

179

Other Plans and Permits

- Army Corps 404
- RWQCB 401 Certification
- Department of Fish and Game 1602
- Dewatering permits
- Make sure they will not expire during project
- Make sure that construction activities have not changed since application was sent in – the permit application may need to be resubmitted

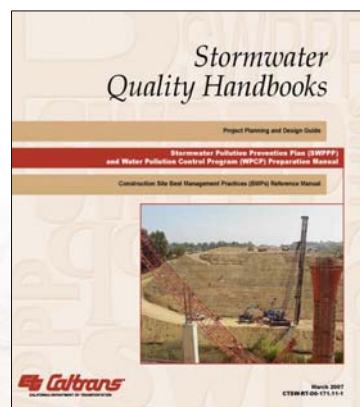


180

Review the SWPPP/WPCP

Use the SWPPP/WPCP Preparation Manual

- Caltrans Storm Water Quality Handbooks
- March 2007 Edition



New CGP Requirement



181

- Check for required information, including construction site area, runoff coefficient before and after construction, percentage impervious area before and after construction and anticipated stormwater flow on to site
- Check calculations in Attachments D & E

- | Attachment E | |
|---|--------|
| Computation Sheet for Determining Rucman Discharges | |
| Existing Line Conditions | |
| Line Number | 1 |
| Line Length (ft) | 100 |
| Line Diameter (in) | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |
| Line Perimeter | 100 |
| Line Circumference | 100 |
| Line Surface Area | 100 |
| Line Volume | 100 |
| Line Weight | 100 |
| Line Length | 100 |
| Line Diameter | 12 |
| Line Material | Steel |
| Line Condition | Good |
| Line Status | Active |
| Line Type | Water |
| Line Pressure (psi) | 100 |
| Line Temperature (°F) | 70 |
| Line Velocity (ft/s) | 10 |
| Line Flow (gpm) | 1000 |
| Line Head (ft) | 100 |
| Line Loss (ft) | 10 |
| Line Efficiency (%) | 90 |
| Line Factor | 1.0 |
| Line Rating | 100 |
| Line Score | 100 |
| Line Weight | 100 |
| Line Volume | 100 |
| Line Area | 100 |



18

[illegible]

-
- SAMPLE WATER POLLUTION CONTROL IMPLEMENTATION SCHEDULE**
- Copyright © State Water Resources Control Board
- | Project | Start Date | End Date | Status |
|---|------------|----------|-----------|
| 1. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 2. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 3. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 4. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 5. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 6. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 7. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 8. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 9. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 10. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 11. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 12. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 13. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 14. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 15. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 16. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 17. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 18. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 19. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 20. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 21. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 22. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 23. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 24. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
| 25. San Joaquin River Water Quality Improvement Project | 1990 | 1995 | Completed |
- Legend:
- Completed (Red)
 - Ongoing (Black)
 - Planned (Blue)
 - Under Review (Purple)



18

Sec. 400 References, Other Plans, Permits, and Agreements

- Check that all Documents Referenced in the SWPPP are listed
- Copies of the Caltrans (CAS000003) and General Construction (CAS000002) permits must be attached to the SWPPP
- All referenced materials not attached to SWPPP must be kept on-site and be readily available for review



184

Sec. 500 Body of SWPPP

- **500.2 Vicinity Map**
 - Check that Attachment A has Title sheet of project plans and vicinity map with all items listed in Instructions



185

500.3.4-500.3.8 BMPs

- Check that the BMP Tables are completed correctly
 - Contract line items must be included
- Check WPCDs for locations of all selected BMPs (Attachment B)
- Check for adequate narrative description of all selected BMPs and how they will be incorporated into the project

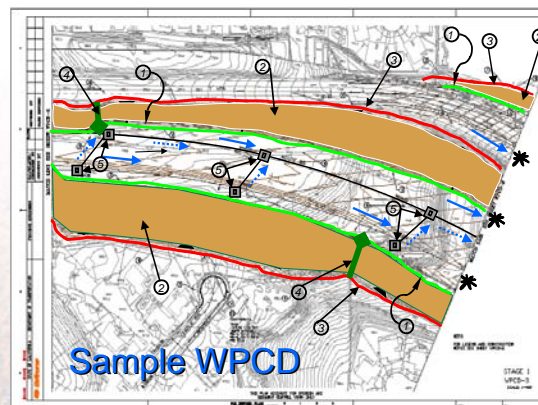
TEMPORARY SOIL STABILIZATION BMPs						
CONSTRUCTION BMP ID NO.	BMP NAME	MINIMUM REQUIREMENT	CONTRACT BID ITEM	BMP USED YES	BMP USED NO	IF NOT USED, STATE REASON
SS-1	Scheduling	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-2	Preservation of Property Preservation of Existing Vegetation	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-3	Temporary Hydraulic Mutch (Eroded Fiber Matrix)	✓		<input type="checkbox"/>	<input type="checkbox"/>	
	Temporary Hydraulic Mutch (Eroded Fiber Matrix)	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-4	Temporary Erosion Control (With Temporary Seeding)	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-5	Temporary Soil Stabilizer	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-6	Temporary Erosion Control (Erosion Mutch with Stabilizing Erosion)	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-7	Temporary Erosion Control (Blanket (On Road))	✓		<input type="checkbox"/>	<input type="checkbox"/>	
	Temporary Erosion Control (Blanket (On Road))			<input type="checkbox"/>	<input type="checkbox"/>	
SS-7	Temporary Cover (Plastic Cover)	✓		<input type="checkbox"/>	<input type="checkbox"/>	
SS-8	Temporary Mutch (Road)			<input type="checkbox"/>	<input type="checkbox"/>	
SS-9	Earth Cakes / Drainage Swales & Leaf Litter			<input type="checkbox"/>	<input type="checkbox"/>	
SS-10	Outlet Protection / Velocity Dissipation Device			<input type="checkbox"/>	<input type="checkbox"/>	
SS-11	Slope Cranes			<input type="checkbox"/>	<input type="checkbox"/>	
SS-12	Streambank Stabilization			<input type="checkbox"/>	<input type="checkbox"/>	



186

500.4 Water Pollution Control Drawings

- Check that WPCDs (Attachment B) have all required information listed in Instructions



187

500.7 Training

- Check that the training for the WPCM, SWPPP Preparer, Sampling personnel and any other responsible person is described and that Attachment I has adequate certification

New CGP Requirement



188

600.5 Sampling and Analysis Plan for Non-Visible Pollutants

- Verify that contractor has listed all non-visible sampling locations:
 - Material and Waste Storage and Use areas
 - Prior known contamination of the site
 - Soil amendments to be utilized
 - Run-on to the site
- Verify that locations are shown on the WPCDs in Attachment B

New CGP Requirement



189

600.5.4 Analytical Constituents

- Verify that contractor has completed Table 600-3 and identified specific sources and types of potential non-visible pollutants on site

Table 600-3 (Example) Potential Non-Visible Pollutants and Water Quality Indicator Constituents		
Pollutant Source	Pollutant	Water Quality Indicator Constituent
Vehicle Batteries	Lead, Sulfate, Acid	Lead, sulfate or pH



190

Pre Construction Meeting

- Who should attend?
 - RE
 - Contractor's Superintendent
 - Contractor's Water Pollution Control Manager (WPCM)
 - Contractor's SWPPP Preparer
 - Appointed CT SWPPP Inspector
 - CSWC
 - RWQCB Representative (Invitation required to meeting with contractor)
- Water pollution control meeting can be integrated into the pre-construction meeting with the contractor, but not recommended



191

Pre Construction Meeting

- Discuss project-specific water pollution control issues
 - Other plans and permits
 - Environmentally sensitive areas
 - Coordination of Special Provision requirements
 - The conceptual SWPPP (if applicable)
 - RE Pending File information



192

RE Responsibilities During Construction

- Coordination With Structures Representative
 - Bridge Construction Memo 2-1.0
Miscellaneous Information and Instructions
(May 1, 1995 -Sheet 6 of 7)
 - Bridge Construction Memo 2-1.1
Miscellaneous Information and Instructions
(Sept. 17, 2004 - Sheet 1 of 1)

Bridge Construction Records And Procedures



Department Of Transportation
Structure Construction

Volume 1

Updated March 25, 2009



193

RE Responsibilities During Construction

Bridge Construction Memo 2-1.0

11. Dealing With Agencies Such as Corps of Engineers, Reclamation Board, Flood Control Districts, or Coast Guard: This is the basic responsibility of the Resident Engineer. However, since these agencies control waterways and it will generally be structure work which is the subject of discussion, the Office of Structure Construction will provide any assistance which the Resident Engineer requests.



194

RE Responsibilities During Construction

Bridge Construction Memo 2-1.1

Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Administration is the responsibility of the Resident Engineer. Office of Structure Construction personnel will assist the Resident Engineer in the administration of SWPPP/WPCP for structure related work.



195

Contract Special Provisions

- Section 10-1. Water Pollution Control
- Issued to satisfy the NPDES Permit requirements
- Requires use of the Storm Water Quality Handbooks
- Details water pollution control requirements
- Defines DSA limit
- Maintenance and Inspection



New CCP Requirement



196

Contract Special Provisions

- Identifies plan required (SWPPP or WPCP)
- Identifies appropriate RWQCB
- The SWPPP/WPCP contents and approval process
- Additional required BMPs
- Year round requirements



197

Contract Special Provisions

- Winter Shutdown (if applicable)
- Sampling and Analytical Requirements
- Move-In/Out for Temporary/Permanent Erosion Control
- 50/50 BMP Maintenance Sharing
- Progress Payments/Detention/Retention



198

No Work to Start Without Approved SWPPP/WPCP

- **Contractor should not:**
 - Move-in equipment or pollutant causing materials
 - Disturb soil areas
 - Track sediment onto adjacent roads



199

Inspections

- **Contractor**
 - Must complete inspection and submit completed Checklist to RE
- **Caltrans**
 - Ensures Contractor has completed inspections
 - Inspect the contractor's operations for water pollution control compliance

Attachment to Storm Water Quality Construction Inspection Checklist

GENERAL INFORMATION			
Project Name			
Contractor Contract #			
Contractor			
Inspector's Name			
Inspector's Title			
Signature			
Date of Inspection			
Inspection Type	<input type="checkbox"/> Prior to forecast rain	<input type="checkbox"/> After a rain event	
Check Application	<input type="checkbox"/> 24 hr intervals during extended rain	<input type="checkbox"/> Other _____	
Weather			
Check Frequency	<input type="checkbox"/> Rainy	<input type="checkbox"/> Non-Rainy	
Storm Date	Storm Start Date & Time	Storm Duration (hrs)	
	Time elapsed since last storm (days/minutes/hrs)	Approximate Rainfall (inches)	
	Miles _____ Yds _____		

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS			
Total Project Area	Hectares	Acres	
Regulatory Sensitive DSA Limit	Hectares	Acres	
Field Estimate of Active DSA	Hectares	Acres	

OTHER REQUIREMENTS			
Requirement	Yes	No	Corrective Action
Preservation of Existing Vegetation			
Is temporary seeding provided to protect vegetation in areas where no construction activity is planned?			
Location			
Location			

Attachment to Storm Water Quality Construction Inspection Checklist
2 of 2

Caltrans Storm Water Quality Handbook
California Department of Transportation
November 2009



200

Inspection Frequency

- Prior to anticipated storm events
- During extended storm events (once each day)
- After actual storm events
- Weekly
- Daily within the Lake Tahoe Region
- Other permit required frequency



Forecast at a Glance

This Afternoon	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday
Breezy HI 48 °F	Mostly Clear Lo 28 °F	30% Chance Showers HI 48 °F	30% Chance Rain/Snow Lo 37 °F	Partly Sunny HI 44 °F	Partly Cloudy Lo 29 °F	Mostly Sunny HI 44 °F

Detailed 7-day Forecast

Current Conditions

New CGP Requirement



201

Before the Inspection

- Review Special Provision 10-1.02 Water Pollution Control
 - What are the required BMPs for erosion, sediment and construction site management?
- Review the SWPPP or WPCP
 - Are there any relevant amendments?
 - Are there any Unique Site Features?
 - Does the Schedule callout adequate BMPs for erosion, sediment and construction site management?



202

Stormwater Inspection Tips

- Take a copy of approved SWPPP on field inspection
- Use an inspection form
- Contractor should participate in inspection
- Inspect the entire site including the perimeter
- Start inspection from lowest point or from area where discharge possibility is the highest



203

Stormwater Inspection Tips

- Walk interior and perimeter of Contractors yard
- Invite Structures Construction personnel
- Identify existing conditions
- Take photographs
- Identify changes in construction that may require amendments to the SWPPP or WPCP



204

Stormwater Inspection Tips

- What if contractor's yard is not within the ROW?
Check with RE before entering
- The Caltrans Permit requires SWPPP to apply to all areas related to construction whether or not they are on the right-of-way
- The RE is responsible for:
 - Coordinating the inspection of offsite construction activities with the contractor
 - Communicating with the contractor and ensuring proper implementation and maintenance of BMPs
 - Ensuring proper compliance with the Permit and SWPPP



205

Inspections

- Are the BMPs implemented in accordance with the Special Provisions and SWPPP?
- Are the required combinations of Soil Stabilization, Sediment Barriers and Desilting Basins installed?
- If a Desilting Basin is required but not feasible, is there an adequate replacement?
- Are the sediment control BMPs available for implementation prior to a predicted rain event?



206

Inspections

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
STORMWATER SITE INSPECTION REPORT
(CMAS 300) (REV 10/09)

Page 1 of 30

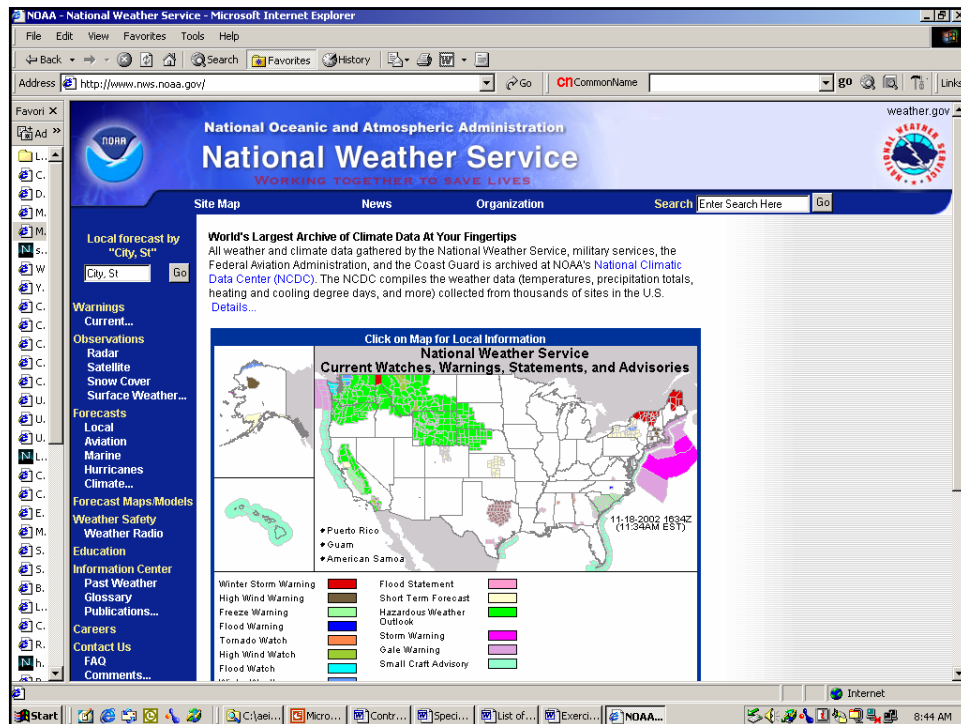
PROJECT INFORMATION NAME AND SITE ADDRESS		CONTRACT NUMBER/SECTION	
		PROJECT IDENTIFIER NUMBER	
		WIDE NUMBER	
CONTRACTOR NAME AND ADDRESS		PROJECT SITE RISK LEVEL	
		<input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
Submitted by contractor (print and sign name)		Date	
Water pollution control manager name and company name		Phone number	
		Emergency CONTACT phone number	
General Information			
Inspector's Name		Date of Inspection	
Weather condition		Wind Condition	
<input type="checkbox"/> Clear <input type="checkbox"/> Partly cloudy <input type="checkbox"/> Cloudy	<input type="checkbox"/> Misty <input type="checkbox"/> Light rain <input type="checkbox"/> Rain	<input type="checkbox"/> Heavy rain <input type="checkbox"/> Hail <input type="checkbox"/> Snow	<input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph
Construction Phase		Site Information	
<input type="checkbox"/> Highway construction <input type="checkbox"/> Plant establishment <input type="checkbox"/> Suspension of work (practice site)		<input type="checkbox"/> Acres total project area <input type="checkbox"/> Acres total project disturbed soil area <input type="checkbox"/> Acres current phase disturbed soil area <input type="checkbox"/> Acres current phase inactive disturbed soil	
Inspection Type		Storm Information	
<input type="checkbox"/> Check compliance box <input type="checkbox"/> Weekly <input type="checkbox"/> Quarterly non-stormwater <input type="checkbox"/> Pre storm	<input type="checkbox"/> One report since last storm <input type="checkbox"/> One storm in expected (days) <input type="checkbox"/> One storm in (days) <input type="checkbox"/> One report since storm began <input type="checkbox"/> Hours minutes	<input type="checkbox"/> Precipitation amount from last storm <input type="checkbox"/> inches <input type="checkbox"/> Precipitation amount <input type="checkbox"/> inches <input type="checkbox"/> Precipitation amount from storm recorded from site run gauge <input type="checkbox"/> inches	
<input type="checkbox"/> During storm event <input type="checkbox"/> Post storm		<input type="checkbox"/> One report since storm began <input type="checkbox"/> Hours minutes	

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 634-8415 or TDD (916) 634-8888 or relay Texas and Texas Management, 1120 N Street, MS-06, Sacramento, CA 95811.

New CGP Requirement



207



Inspections

- Look at photos and identify a noncompliance
- Find a questions on checklist that matches observations
- Check yes or no to indicate a noncompliance.
- Write a corrective action (even if it is fixed during inspection)
- Don't forget to document follow-up once corrective action is completed



Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



210

Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



211

Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



212

Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



213

Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



214

Inspection Exercise

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



215

Inspections

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



216

Inspections

- Find a question that matches the site condition
- Check yes or no to indicate a noncompliance
- Write a corrective action
- Not done with checklist until implementation is indicated



217

Sampling and Analysis

RE and inspector are responsible for making sure contractor performs sampling as required



**New CGP
Requirement**



218

Sampling and Analysis

When is sampling required on a Project?

Per the General Construction Permit

Per a Local Regional Board Permit:

- Dewatering Permit
- Permit for a Clear Water Diversion
- 401 Water Quality Certification



219

Non-Visible Pollutants

- **Sampling and Analysis is required if...**
 - Construction material or wastes are not stored under watertight conditions
 - A spill or breach of containment of pollutants occurs and is not cleaned up prior to rain
 - Site is contaminated by prior use
 - Soil amendments or soil stabilizers have been applied during or within 24 hours preceding a rain event
- **... and there is the potential for discharge of pollutants to surface waters or drainage system**



220

Sediment/Silt/Turbidity

- **Sampling and Analysis is required if...**
 - The construction site discharges directly to listed water body

**New CGP
Requirement**



221

Dewatering Pollutants

- **Sediment**

- In some RWQCB jurisdictions, stormwater with sediment only can be discharged under the Caltrans Permit if it is '**visibly clear**'. Sampling may not be required.
- Other RWQCBs require a General or a Site Specific Dewatering Permit which will require sampling as specified by that permit

- **Other Pollutants**

- Sampling as required by RWQCB Permit



222

Field Sampling for Turbidity



0 NTUs



33 NTUs



113 NTUs

**New CGP
Requirement**

Visibly clear is if you can see through it,
Equivalent to < 50 NTUs



223

Field Sampling for Turbidity

- Collect a sample in a small jar from effluent, or receiving water as required
- View to see if it is visibly clear
- Or test with a Turbidity Meter Measured in Nephelometric Turbidity Units (NTUs)



224

Sampling Procedures

- Field Analysis
 - pH
 - Turbidity
- All field equipment should be calibrated per manufacturer's specifications



225

Evaluation of Results

- **Data Evaluation**

- The contractor will submit an evaluation of the water quality sample analytical results for every sampling event
- Should downgradient samples exceed upgradient or background levels, the WPCM will evaluate:
 - BMPs
 - Site Conditions
 - Surrounding influences/other site factors

**New CGP
Requirement**



226

Evaluation of Results

- **Data Evaluation (cont.)**

- Contractor will determine probable cause for the increase in levels downgradient
- Appropriate BMPs will be repaired or modified to mitigate increases/discharges
- Any revisions to the BMPs will be recorded as an amendment to the SWPPP



227

RE Enforcement

- Verbal warning
- Written notification
- Enforcement using the 25% progress payment retention
- Stop work



228

RE Enforcement

- Manage SWPPP items like other contract items
- 50/50 BMP Maintenance sharing – specific BMPs are identified in Specials
- Move-In/Out (Permanent Erosion Control)



229

RE Enforcement

- Suspending any work that would exacerbate the noncompliance or interfere with or prevent the contractor's efforts to correct the deficiency (Standard Specifications 8-1.05)
- Withholding funds from contract progress payments as specified in the contract (Special Provisions 10-1)

230



230

RE Enforcement

- Hold contractor responsible for all costs and liabilities resulting from a failure to comply with Water Pollution Control special provisions (Special Provisions 10-1)
- Discharge any subcontractor or person employed by contractor who Caltrans deems to be incompetent or who acts in a disorderly or improper manner (Standard Specifications 5-1.12)



231

RE Enforcement

- Assess liquidated damages including passing along fines for permit violations (Standard Specifications 8-1.07)
- Bring in a separate contractor or Caltrans Maintenance to complete the work (Standard Specifications 8-1.08)
- Initiate termination of the contract (Standard Specifications 8-1.11)



232

Local Agency Project Sanctions

- **Encroachment Permits**
(Oversight Projects Generally <\$1,000,000):
 - Caltrans has right to revoke permit for violation of the encroachment permit conditions
 - Without an encroachment permit, local agency and contractor are required to suspend all work on site
 - Additional bonding, deposit of additional funds, and additional fees may be required to reissue permit



233

Local Agency Project Sanctions

- **Cooperative Agreement**
(Oversight Projects Generally >\$1,000,000):
 - If the Local Agency does not comply with the encroachment permit, they can be required to return the site to original condition or to a condition of acceptable permanent operation
 - Caltrans can take over a project and complete it or place Project in satisfactory permanent operation condition, then be reimbursed with gas tax funds that were due the local agency
 - State retains authority to discontinue services of any personnel considered to be unqualified



234

Local Agency Project Sanctions

- **Other Possible Sanctions by Caltrans Include:**
 - Freeze the programming of federal or state funds
 - Freeze progress payments for a federal-aid project
 - Withdrawal of all or part of Federal or State funds

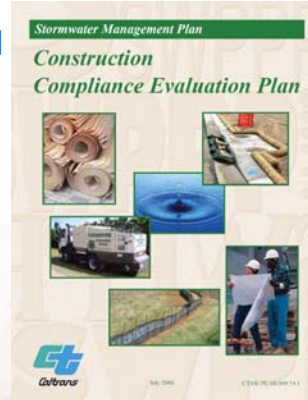
Failure to correct the deficiencies in a timely manner shall be grounds for imposing additional sanctions



235

Field Activity Compliance Evaluation (SWMP Section 14.3)

- Performed and reported by Department's Chief Environmental Engineer (CEE) to:
 - Monitor the level of compliance
 - Evaluate trends
 - Recommend improvements
- Construction Compliance Evaluation Plan (CCEP) Quality Process includes:
 - QC: Inspection (by contractor)
 - QA I: Inspection (by RE staff)
 - QA II: Review (by DCSWC)
 - IA: Independent Assurance Review (under direction of DEA reviewer)
- Results are provided in Annual Report



236

Other Important Forms

Contractor is to initiate the following forms but the RE must ensure they are completed:

- Notice of Discharge
- Annual Compliance Certification
- Trained Contractor Personnel Log
- SWPPP Amendment
- Amendment Log

**New CGP
Requirement**



237

Notice of Discharge

- **Applicable Discharges:**

- Stormwater from a DSA discharged to a waterway without treatment by a BMP
- Stormwater discharged to waterway or storm drain system where control measures have been overwhelmed or not properly maintained or installed
- Prohibited non-stormwater or hazardous substance discharges/spills
- Where water quality samples indicate elevated sediment or non-visible pollutants
- Others as directed by RE



238

Notice of Discharge

- If any pollutants are discharged into the waters of the state, notify the CSWC immediately
- Review Caltrans Permit to determine the appropriate reporting timeframe, and provide a draft report of noncompliance to the CSWC
- The CSWC will then forward the report to the RWQCB



239

Notice of Discharge

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NOTICE OF DISCHARGE REPORT
 CDM-2061 (NEW 10/2015)

Page 1 of 3

PROJECT INFORMATION NAME AND SITE ADDRESS: _____ CONTRACT NUMBER/CITY/STATE: _____

PROJECT IDENTIFIER NUMBER: _____

WQSC NUMBER: _____

CONTRACTOR NAME AND ADDRESS: _____ PROJECT SITE RISK LEVEL:
☐ Risk Level 1
☐ Risk Level 2
☐ Risk Level 3

Submitted by contractor (print and sign name): _____ Date: _____

Notice of Discharge General Information

Location: _____ Date discharge occurred: _____

Discharge type: _____ Existence of applicable water quality standard:
☐ Streamwater
☐ Turbidity
☐ pH
☐ Authorized non-streamwater
☐ Non-authorized non-streamwater

Discharge identified by permittee (print and sign name): _____ Date and time water pollution control manager notified of discharge: _____
☐ YES
☐ NO

Discharge identified by State Water Quality Control Board? ☐ YES
☐ NO Date and time resident engineer notified of discharge: _____

Storm Event Information
 Complete this section for stormwater discharges.

Start of storm event: _____ End of storm event: _____
 Date: _____ Date: _____

Duration: _____ Hours: _____ Minutes: _____ Storm event precipitation amount recorded from gauging station (inches): _____
 Date: _____ Date: _____

Notice of Discharge Information

The nature and cause of the water quality standard existence, based on a visual observation of the discharge location: _____

SWP currently installed at the location of the discharge: _____

Additional SWP's that will be implemented to prevent or reduce pollutants loading or contributing to existence of a water quality standard: _____

Implementation schedule for additional SWP's: _____

Maintenance or repair of SWP's: _____

Implementation schedule for SWP's maintenance or repair: _____

Other required corrective actions: _____

Implementation schedule for corrective actions: _____

Summary of actions taken to reduce the pollutants loading or contributing to the water quality standard existence: _____



240

Notice of Discharge

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NOTICE OF DISCHARGE REPORT
 CDM-2061 (NEW 10/2015)

Page 2 of 3

PROJECT INFORMATION NAME AND SITE ADDRESS: _____ CONTRACT NUMBER/CITY/STATE: _____

PROJECT IDENTIFIER NUMBER: _____

WQSC NUMBER: _____

Sampling and Analysis Results
 (Required when discharge samples are taken)

Sample location identification number: _____ Date of sampling: _____

Sample collected by: _____ Date of analysis: _____

Sample analyzed by: _____ Date and time water pollution control manager notified of results: _____

Analyst phone number: _____ Date and time resident engineer notified of results: _____

Sample identification: _____ Sample collection time: _____ Storm event characteristics (Amount at Sample Time): _____

Analysis: _____

Analysis Information

Meter manufacturer: _____ Meter number: _____ Serial number: _____ Calibration date: _____

Analysis method: _____ Method recording unit: _____ Method detection limit: _____

Note: Meter calibration information available in the Support File.

Additional Information

Run-on samples taken? ☐ YES
☐ NO Run-on sample identification: _____

Notice of Discharge Report Certification

I certify under penalty of law that this statement and all information were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the level of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Water pollution control manager name: _____ Date: _____

Water pollution control manager signature: _____

Accepted by resident engineer (name): _____ Date: _____

Resident engineer signature: _____


Discharge reported by telephone or email to the Regional Water Quality Control Board (RWQCB) within 48 hours of discovery? ☐ YES
☐ NO Date discharge reported to RWQCB: _____ Resident engineer initials: _____

Notice of Discharge Report submitted to RWQCB within 14 days (10 days for District 1 and District 10)? ☐ YES
☐ NO Date report submitted to RWQCB: _____ Resident engineer initials: _____



241

Notice of Discharge



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NOTICE OF DISCHARGE REPORT
(CEN-204) (REV 10/2016)

Page 1 of 3


Instructions

General Information

- This form is required for compliance with provisions in Section C.2, "Receiving Water Limitations for Construction," of the National Pollutant Discharge Elimination System (NPDES) Permit: Statewide Storm Water Permit and Water Discharge Requirements (SDQS) for the State of California, Department of Transportation (Caltrans), Order No. 99-28-DW2, NPDES No. CA000003.
- This form is to be completed when the contractor, Caltrans, State Water Resources Control Board, or Regional Water Quality Control Board staff determines that stormwater discharges, authorized non-stormwater discharges, or non-authorized, non-stormwater discharges are causing or contributing to an exceedance of an applicable water quality standard.
- Water quality standards are contained in the Statewide Water Quality Control Plan or applicable Regional Water Quality Control Board (RWQCB) Basin Plan.
- Sampling guidance is found in the current edition of the Construction Site Monitoring Program Guidance Manual.
- Included a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) file.

Form

- Project Identifier Number**
Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a number, write N/A in the field.
- Contract Number/Callout#**
For local agency encroachment permit projects, write the encroachment permit number in the contract number field.
- Storm Event Information**
Leave section blank if rain is checked for either authorized or non-authorized non-stormwater discharge.
- Discharge Information**
Do not leave any subsection blank. Caltrans permit specifically requires Caltrans to submit the information in this section to RWQCBs. For non-stormwater discharges, describe the construction operation or activity that caused the discharge.
- Sampling and Analysis Results**
Leave this section blank if the no box is checked for discharge samples taken.
- Analysis Results**
Analytical results less than the method detection limit shall be reported as "Less than the method detection limit."
- Analysis Information**
Leave section blank if the no box is checked for discharge samples taken?
- Addition Information**
Leave non-run sample identification blank if no box is checked for run-on samples taken.



ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-6552 or write Records and Forms Management, 1155 N Street, 400-05, Sacramento, CA 95811.

242

Find the best and worst description of Initial Assessment of any impact caused by discharge

- **“An estimated 6,000 gallons of stormwater runoff entered the frog pond. No damage was observed.”**
- **“50 gallons of drill water entered the Bay. No visual impact to the Bay was observed.”**
- **“Silt entered the creek area at Sta 75+00. No danger to public safety.”**
- **“None”**

Find the best and worst description of Existing BMPs in place prior to discharge

- “Air testing of tubes was conducted prior to grouting operation. Crew was in the area to watch for any leaks.”
- “Silt fence, straw, waddles, temporary cover, drainage inlet protection (rock bags), and street sweeping”
- “Drilling plan, which includes BMP NS-13 “Material and Equipment use Over Water” was being followed when the incident occurred. The drill water is contained in the piles and weir barge using a sealed system.”
- “N/A”



244

Find the best and worst description of Date of Deployment and Type of BMPs after Discharge

- “No additional BMPs were deployed.”
- “1-7-08 @ 2:30PM: Water Pollution Control Manager and site Superintendent scheduled dispatch of two crews to clean and repair area of silt fence damage.”
- Feb 4 -8, 2008, Added extra silt fence, extra straw waddles and maintained drainage inlet protection. Furthermore, operated street sweeper twice a day to remove accumulated sediment in the street that resulted from pile driving operations at that location.”
- “N/A”



245

Find the best and worst description of Steps taken or planned to reduce recurrence of discharge

- “A larger pump will be introduced into the North Gate Sump to intercept the larger flows in order for the sump to not be overwhelmed. During forecasted large rain events a 6” diesel pump will be in place at the north gate to help with increased flows until a larger pump is installed in the sump.”
- “Attendant will watch filling of water tanks.”
- “Once discharge area is re-stabilized, crews will clean out rock slope protection ED 23-d @ 74+60 and 900 mm CSP culvert 23-b at 74+70 and place additional check dams along subgrade choker between 72+00 and 74+00. This will prevent sediment transport to the area of discharge so that the new BMPs will not be overwhelmed by future rain events. This area will be monitored with additional emphasis prior to, during, and after future storms.”



246

Find the best and worst description of Implementation and maintenance schedule for any affected BMPs

- “SWPPP maintenance will be continued for any additional sediment buildup around BMPs and any onsite storm water collection points.”
- “Enhancement and maintenance of all BMPs in the vicinity will continue through the course of bridge construction over the next 4 months.”
- “N/A”
- “1-8-08 to 1-9-08 Clean silt from BMPs and repair silt fence in area of discharge.
1-10-08 to 1-11-08 Clean culver and install more frequently spaced check dams along subgrade choker from Station 72+00 to 74+00.”



247

Trained Contractor Personnel Log

Contractor is to use this form to document training:

New CGP Requirement

- SWPPP Preparer
- Water Pollution Control Manager
- Stormwater sampler
- Ongoing training during construction
- Need to make sure contractor submits training at least quarterly and updates training when personnel change



24

Trained Contractor Personnel Log

[illegible]

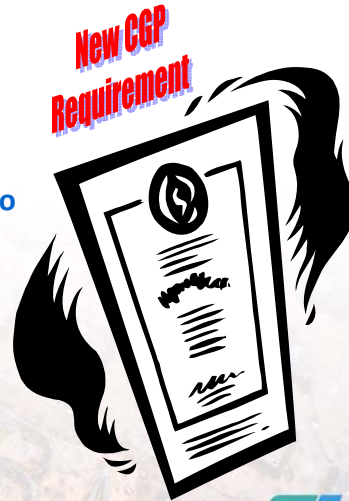
ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 854-6413 or TDD (916) 854-3980 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95834.



24

Annual Certification of Compliance

- Make sure that the contractor completes and certifies the annual compliance certification form (CEM-2070) of the SWPPP and submits it to the RE by July 15
- The RE then signs and certifies the same form and gives a copy back to the Contractor for the SWPPP
- File a copy in Category 20



252

SWPPP Amendment

- Handout – Blank SWPPP Amendment Form and Log
- Exercise - We will complete a simple amendment
- RE determined that gravel bag berms need to be added at the top of some slopes
- For the exercise, include all required information in the space on the log
- Mark up Revisions on WPCD

New CGP Requirement



253

SWPPP Amendment

The amendment requires:

- Who requested the change
- Location of the proposed change
- Reason for change
- Original BMPs before change, if any
- New BMPs after amendment



254

Contract Documentation

- **Category 20 files**
 - SWPPP/WPCP
 - Amendments
 - Annual certification
 - Contractor inspection reports
 - Caltrans inspection reports
 - Correspondence with the contractor
 - DCSWC CCEP (QAII) inspection reports
 - Correspondence with regulatory agencies



255

Communication

- **Regulatory inspections**
 - When to expect them
 - How to act
 - What to say
 - What not to say
- **DON'T SAY:**
I don't know
- **ALWAYS:**
Let them know there is a SWPPP or WPCP on site and direct them to it



256

Project Closeout

- **Maintenance Superintendent Review at 90% – Should any BMPs remain? Discuss permanent BMP maintenance**
- **Relieve the Contractor of maintenance but ensure SWPPP items are complete**
- **Contract Acceptance – construction complete and NCC filled out**



257

Terminate Permit

- NPDES permit requirements
 - Construction must be completed and permanent erosion control must be in place and functional
 - Erosion control is considered functional when a uniform vegetative cover equivalent to 70 percent of the native background vegetation coverage has been established or equivalent stabilization measures have been employed
 - Submit NCC



258

Notice of Completion

- The Notice of Completion of Construction (NCC)
- Take photographs documenting compliance with permit conditions and include with NCC
- Insert into SWPPP

259

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NOTICE OF COMPLETION OF CONSTRUCTION
 CDM 2000 (REV. 9/2015) Page 1 of 2

IN COMPLIANCE WITH CALTRANS STATEWIDE NPDES STORMWATER PERMIT Order No. 99-05 DWQ, NPDES No. CA5000003

I. IDENTIFICATION

PROJECT SITE NAME AND SITE ADDRESS: _____ CONSTRUCTION COMPLETION DATE: _____ DATE: _____

PROJECT SITE RISK LEVEL: _____ CONTRACT NUMBER/SECTION: _____

CONSTRUCTION START DATE: _____ PROJECT IDENTIFIER NUMBER: _____

☐ Risk Level 1
☐ Risk Level 2
☐ Risk Level 3

II. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS

☐ Region 1, North Coast ☐ Region 2, Central Valley ☐ Region 3, Central Coast ☐ Region 4, Central Valley ☐ Region 5, Central Valley ☐ Region 6, Central Valley ☐ Region 7, Central Valley ☐ Region 8, Central Valley ☐ Region 9, Central Valley ☐ Region 10, Central Valley

☐ Region 1, North Coast ☐ Region 2, Central Valley ☐ Region 3, Central Coast ☐ Region 4, Central Valley ☐ Region 5, Central Valley ☐ Region 6, Central Valley ☐ Region 7, Central Valley ☐ Region 8, Central Valley ☐ Region 9, Central Valley ☐ Region 10, Central Valley

III. CALTRANS DISTRICT

DISTRICT NUMBER AND FIELD OFFICE: _____ PROJECT CONTACT: _____

ADDRESS: _____ POSITION TITLE: _____

CITY: _____ PHONE: _____

IV. BASIS OF COMPLETION

☐ 1. The construction job is complete and requirements met as of (date) _____

☐ 2. Construction activities have been suspended as of (date) _____ Expected start-up date: _____

☐ 3. Site cannot discharge stormwater to waters of the United States because (reason) _____

☐ 4. Discharge is now subject to NPDES Permit Number _____ Date: _____

V. DESCRIPTION OF COMPLETION

The project site will pose no more sediment discharge risk than 1.0 before construction activities started, and the following method attained the final stabilization condition:

☐ 1. Permanent final cover method (photographs attached) ☐ Custom method (proof such as results of testing and analysis attached)

☐ 2. Erosion control method (photographs attached) ☐ Custom method (proof such as results of testing and analysis attached)

VI. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my review of the people who manage the system or are directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment, or both.

SIGNATURE: _____

PRINTED NAME: _____

DATE: _____

TITLE: _____

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-6550 or with Records and Forms Management, 1150 N Street, MS-05, Sacramento, CA 95834.

59

Until NCC or NOT is Submitted

- The SWPPP must remain on site during working hours
- Site inspections continue prior to, during, and after storm events
- The July 15 Annual Certification of Compliance
- Notice of Discharge reporting

260



260

Retain Records for 3 Years

- Approved SWPPP documents and amendments
- Records of all inspections
- Compliance certifications
- Notification of Construction
- Notice of Discharge reporting
- NCC/NOI



261

Level II – Post-Test

- Take test when you return to office
- Same test given at the start of the course to evaluate what you learned
- Results will be used to evaluate the effectiveness of this training



262